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# NOTICE OF ALLOWANCE AND FEE(S) DUE

23373

7590

10/27/2008

SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 EXAMINER
PHILIPPE, GIMS S

ART UNIT PAPER NUMBER

2621

DATE MAILED: 10/27/2008

	APPLICATION NO.	PPLICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
Ī	10/669,729	09/25/2003	Yung-Iyul Lee	Q77575	6415	

TITLE OF INVENTION: SIGNAL ADAPTIVE FILTERING METHOD, SIGNAL ADAPTIVE FILTER AND COMPUTER READABLE MEDIUM FOR STORING PROGRAM THEREFOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/27/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

ppropriate. All further of dicated unless correcte naintenance fee notificat	correspondence including below or directed oth tions.	g the Patent, advance or erwise in Block 1, by (a	rders and notification a) specifying a new co	of m	aintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspond rate "FEE	dence address as ADDRESS" for
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WASHINGTON	I, DC 20037								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	CONFIR	MATION NO.
10/669,729 ITLE OF INVENTION TORING PROGRAM T		FILTERING METHOD,	Yung-Iyul Lee , SIGNAL ADAPTIVI	E FII	TER AND COM	PUTEF	Q77575 R READABLE MEDI		6415
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	D	OATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	0	1/27/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS		$\neg$				
PHILIPPE	, GIMS S	2621	375-240160	_					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a s registered attorney 2 registered patent	reprinting on the patent front page, list the names of up to 3 registered patent attorneys ents OR, alternatively, the name of a single firm (having as a member a tered attorney or agent) and the names of up to isstered patent attorneys or agents. If no name is 1, no name will be printed.					
PLEASE NOTE: Unle	ess an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The fied below, no assignee eletion of this form is NO	data will appear on th	ne pa g an a CITY	tent. If an assignossignment. and STATE OR C	OUNT	RY)		_
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OTE: The Issue Fee and	d Publication Fee (if requ	nired) will not be accepted tes Patent and Trademark	d from anyone other th						
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10/669,729	09/25/2003	Yung-Iyul Lee	Q77575	6415	
23373 75	590 10/27/2008	EXAMINER			
SUGHRUE MIO	N, PLLC	PHILIPPE, GIMS S			
	ANIA AVENUE, N.W	ART UNIT PAPER NUMBE			
SUITE 800 WASHINGTON, I	OC 20037		2621 DATE MAILED: 10/27/200	·	

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1025 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1025 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/669,729	LEE ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Gims S. Philippe	2621		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	6 (OR REMAINS) CLOSED ) or other appropriate comr RIGHTS. This application is	in this application. If not included nunication will be mailed in due course		
1. 🔀 This communication is responsive to applicant's response	received on December 21	<u>2007</u> .		
2. 🔀 The allowed claim(s) is/are <u>1-6</u> .				
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority unally All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have</li> </ul>	e been received. e been received in Applicat	ion No	om the	
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirem	ents	
4. A SUBSTITUTE OATH OR DECLARATION must be submiNFORMAL PATENT APPLICATION (PTO-152) which give			E OF	
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	st be submitted.			
(a) ☐ including changes required by the Notice of Draftsper		ew ( PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date	<del>-</del>	,		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	_	or in the Office action of		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MA' FOR THE DEPOSIT OF B	TERIAL must be submitted. Note the IOLOGICAL MATERIAL.	ne	
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 9/25/03, 2/27/04, 5/27/04, 2/22/05, 3/	6. ☐ Interview Paper No 7. ☐ Examiner	nformal Patent Application Summary (PTO-413), ./Mail Date s Amendment/Comment		
<ul><li>11/08/06</li><li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li></ul>	8. ⊠ Examiner 9. □ Other	s Statement of Reasons for Allowance	e	
/Gims S Philippe/				
Primary Examiner, Art Unit 2621				



Application No.

Application/Control Number: 10/669,729 Page 2

Art Unit: 2621

### Allowable Subject Matter

2. After a further search and a thorough examination of the present application and in light of the prior art made of record, claims 1-6 are found to be in condition for allowance.

#### Reasons for Allowance

The following is an Examiner's statement of reasons for the indication of allowable subject matter:

The claims are allowable over the prior art of record since the cited reference taken individually or in combination fails to particularly disclose an image data filtering method for reducing blocking effect and noise comprising the steps of generating two-dimensional binary edge map representing whether each pixel is filtered, filtering by applying a predetermined filter window to the generated binary edge map, wherein the performing the filtering comprises not performing filtering if the central pixel of the filter window is an edge.

The closest prior art (Kim US Patent no. 5,475,434) discloses a similar filtering method, however, Kim fails to particularly teach or suggest "generating two-dimensional binary edge map representing whether each pixel is filtered, filtering by applying a predetermined filter window to the generated binary edge map, wherein the performing the filtering comprises not performing filtering if the central pixel of the filter window is an edge." as claimed.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gims S. Philippe whose telephone number is (571) 272-7336. The examiner can normally be reached on M-F (10:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571) 272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gims S Philippe Primary Examiner Art Unit 2621

/G. S. P./ /Gims S Philippe/ Primary Examiner, Art Unit 2621